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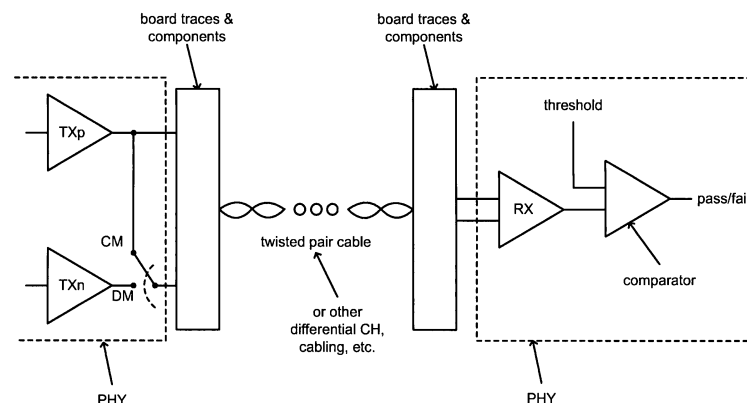
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(54) **Transceiver self-diagnostics for electromagnetic interference (EMI) degradation in balanced channels**

(57) Transceiver self-diagnostics for electromagnetic interference (EMI) degradation in balanced channels. Selective operation of transmitting a common mode signal from a communication link implemented for supporting differential signaling, and appropriate processing of any detected signal energy, such as that corresponding to differential signal energy, provides a measure of electromagnetic compatibility (EMC) corresponding to the communication link. Comparison of detected differential signal energy to one or more thresholds may provide

indication of whether or not the communication link is balanced or unbalanced, a degree or margin with which the communication link is compliant in accordance with EMC in accordance with one or more protocols, standards, or recommended practices. Multiple successive measurements of detected differential signal energy may be used to determine a trend of performance, such as whether or not the communication link is trending toward imbalance, failure, or noncompliance.

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**FIG. 4**



## EUROPEAN SEARCH REPORT

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